



# User's Guide to the Alaska Department of Natural Resources, Division of Mining, Land & Water Alaska Hydrologic Survey (AHS) Water Well Log Tracking System (WELTS)

Welcome to the Well Log Tracking System (WELTS) for online reporting  
and archival of water well logs!

This user's guide is divided into four components: 1) instructions to conduct a search for water well logs using the tabular application, 2) instructions for online reporting of water well logs, 3) instructions to download shapefiles using WELTS in Alaska Mapper, and 4) instructions to access metadata.

# **Component 1:**

**instructions to conduct a search for  
water well logs using the tabular  
application**

To conduct a search for well logs, select a field to initiate the search by clicking on the dropdown arrow as shown below:

The screenshot shows the Alaska Department of Natural Resources Mining, Land & Water website. The page is titled "Well Log Tracking System (WELTS)". It features a search bar with a dropdown arrow. A red arrow points to this dropdown arrow. The search bar is labeled "Search:" and has a dropdown menu open showing the following options: Owner Name, Owner Name, Driller Name, Parcel Description, MTRS, REAA/Borough, City, Water Rights File, Log ID, PWSID, and By Map. The "Owner Name" option is highlighted. Below the search bar, there is a "Search by key word" section with a text input field and a "Search" button. The page also includes a "Forms" section with a "Select Form..." dropdown and an "Additional Helpful Information" section with a "Choose Information..." dropdown. A "Welts User Guide" link is also present. The footer contains links for Privacy, Copyright, System Status, and Webmaster, along with contact information for the Department of Natural Resources.

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Alaska Department of Natural Resources  
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search

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Natural Resources > MLW > WELTS

Well Log Tracking System (WELTS)

Search WELTS

Welcome to the Alaska Well Log Tracking System (WELTS)! Alaska Statute 41.08.020(b)(4) and Alaska Administrative Code 11 AAC 93.140(a) requires water well contractors to file water and aquifer data obtained, including but not limited to, well location, well driller's logs, pumping tests and flow measurements, estimated elevation, and water quality determinations **within 45 days of well completion.**

Forms Select Form... Additional Helpful Information Choose Information...

Welts User Guide Search: Owner Name Owner Name Driller Name Parcel Description MTRS REAA/Borough City Water Rights File Log ID PWSID By Map Last name, First name Search

Search by key word suggestion dropdown list or use filter to narrow results

Disclaimer: This page is provided as a public service. The Department of Natural Resources makes NO representation regarding well location, completeness, or accuracy of the data in the database or data extraction procedures. Data are provisional. The user assumes all liability for verification.

Privacy Copyright System Status Webmaster

Department of Natural Resources  
550 W. 7th Ave, Suite 1260, Anchorage, AK 99501-3557  
Phone: 907-269-8400 || Fax: 907-269-8901 || TTY: 907-269-8411

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Type in the information that you would like to conduct the search on as shown below, then click on the *Search* button:

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Alaska Department of Natural Resources  
**Mining, Land & Water**

Search

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Natural Resources > MLW > WELTS

## Well Log Tracking System (WELTS)

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Forms  Additional Helpful Information

[WELTS User Guide](#)

Search:

Search by key word and choose from suggestion dropdown list.

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Department of Natural Resources  
550 W. 7th Ave, Suite 1260, Anchorage, AK 99501-3557  
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A screen similar to the one shown on the right will appear.

You may include an additional filter if you wish by typing an item (i.e. region, owner name) in the filter box.

You may also change the number of entries shown per page by clicking on the dropdown arrow.

You may also sort the data (ascending or descending) by clicking on the ^ icon  
v

Additionally, one may change the page as shown on the bottom menu

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Alaska Department of Natural Resources

# Mining, Land & Water

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Natural Resources > MLW > WELTS

## Well Log Tracking System (WELTS)

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Forms  Additional Helpful Information

[WELTS User Guide](#) Search:

Search by key word and choose from suggestion dropdown list or use filter to narrow results

### Well Log Search Results

Show  entries

Filters:

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
25561		ARCTIC DRILLING INC.	09-Sep-97	MCKINLEY VILLAGE HOTEL	Denali Borough	PARKS HIGHWAY M231.0, DENALI PARK
26148		ARCTIC DRILLING INC.	15-Aug-01	STATE OF ALASKA, DIV PARKS, BIRCH LAKE LANDING	Fairbanks North Star Borough	BIRCH LAKE BOAT RAMP, GOV 1
27196		ARCTIC DRILLING INC.	01-Aug-98	LAMBERT	Yukon-Koyukuk REAA	OLD WOOD ROAD 1069 / OLD NENANA HIGHWAY
30360		ARCTIC DRILLING INC.	24-Jun-04	BECK, D		DORHORST ROAD, DELTA JUNCTION
30499		ARCTIC DRILLING INC.	16-Jul-04	JACKSON, T		DUNDEE LOOP L18, NORTH POLE
30508		ARCTIC DRILLING INC.	27-May-04	AUSTIN, C		NISTLER ROAD L04, DELTA JUNCTION
30509		ARCTIC DRILLING INC.	31-Jul-04	VICK, T & L	Fairbanks North Star Borough	ORRELL L02, BECKER RIDGE ROAD 2075, FAIRBANKS
30510		ARCTIC DRILLING INC.	31-Jul-04	FUGATE, C	Fairbanks North Star Borough	CLYDESDALE DRIVE 2571, NORTH POLE
30526		ARCTIC DRILLING INC.	30-Aug-04	DERUYTER, J		MURPHY DOME ROAD # 3899
30573		ARCTIC DRILLING INC.	16-Sep-04	WILKINSON, D		DOC JOHN DRIVE 2571, FAIRBANKS

Showing 1 to 10 of 459 entries

First Previous 1 2 3 4 5 Next Last

In this example, additional information was included (i.e. hatchery) to narrow the search

Additionally, the number of entries shown per page was reduced.

One may view the file for a particular well, by clicking on the Log ID number.

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Forms  Additional Helpful Information

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Search by key word and choose from suggestion dropdown list or use filter to narrow results

### Well Log Search Results

Show  entries

Filter:

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
34310		M-W DRILLING	10-Feb-10	STATE OF ALASKA, FISH AND GAME, ANCHORAGE SPORTS FISH	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (LAS 26625 AND 30333 TOO)
38068		M-W DRILLING	22-Oct-08	RUTH BARNETT FISH HATCHERY, ADF&G	Fairbanks North Star Borough	
39598		M-W DRILLING	10-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #1 GOLF COURSE AREA-ELMENDORF AFB
41613		M-W DRILLING	15-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #2 GOLF COURSE AREA-ELMENDORF AFB
41614		M-W DRILLING	05-Nov-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #3 GOLF COURSE AREA-ELMENDORF AFB

Showing 21 to 25 of 25 entries (filtered from 7,358 total entries)   1 2 3 4 5

After clicking on the Log ID number, a screen similar to the one on the right will appear. You may view information manually entered into previous versions of WELTS by selecting the vertical tabs. Please note legacy data that was not entered into older versions of WELTS will display “Not Available.”

You may also view the well log file (which may have the legacy information included) by clicking on the Well Log button

The screenshot displays the Alaska Department of Natural Resources Mining, Land & Water Well Log Tracking System (WELTS) interface. The page title is "Well Log Tracking System (WELTS)". The main content area is titled "Well Log 38068 Information". A red arrow points to the "Location Information" tab in the sidebar. The "Owner Information" section is visible, showing details for "RUTH BARNETT FISH HATCHERY".

Owner Information	Driller Information	Location Information	Well Data	Borehole Data
<b>Last name:</b> RUTH BARNETT FISH HATCHERY <b>First name:</b> ADF&G <b>Address:</b> Not Available <b>City:</b> FAIRBANKS <b>State:</b> AK <b>Zip:</b> Not Available <b>Phone:</b> Not Available <b>Email:</b> Not Available				



38068

After selecting the well log button, the well log will open as shown on the right

# M-W Drilling, Inc.

♦ P.O. Box 110389 ♦ Anchorage, AK 99511 ♦  
♦ 907-345-4000 ♦ 907-345-3287 Fax ♦

Job No. 08-107

## GROUNDWATER WELL AS-BUILT & LOG

Well Owner: Alaska Dept. of Fish and Game Use of Well: Industrial  
Legal Description: Ruth Burnett Fish Hatchery Fairbanks, Alaska

### CONSTRUCTION

Hole Depth: 193.1' Casing Size: 8" Cased To: 170.4' Material: A 53 Steel, Grade 3  
Drill Method: Air Rotary Well: 322

Well Completion: Open end Screen X Perforated Perf. Method:  
Screen description: R. Packer & River Pipe 145.48' - 167.16', 304SS Screen to 187.56', Tailpipe & bottom plate to 193.1'  
Grout Notes: (4) Sack(s) of Bentonite

Notes:  
Disinfected: Yes Method: Clorox  
Well Development Method Mechanical Surge

Notes: 32 HOURS DEVELOPMENT  
Static water level (SWL) 10' below top of casing (TOC).  
Well yield test at 400 Gals. per minute (GPM) for 24 hour(s) with 30.5' of drawdown (DD) from static level (SWL).  
Method: Sub Pump  
Start Date: Completion Date: 10/22/2008  
Pump Install Date:

### WELL LOG

Depth in feet from top of casing.	Details of formations penetrated, size of material, color and miscellaneous details.
0 TO 3	Casing Stick Up
3 TO 14	Silty Sand: Dry
14 TO 18	Silty Sand: Damp
18 TO 56	Water Gravel: Coarse
56 TO 60	Sand: Heaving, Water Bearing, Fine-Medium
60 TO 77	Sandy Gravel: Coarse (1-2 GPM)
77 TO 140	Silt: Sandy, Mucky, with some Gravel layers
140 TO 144	Water Gravel: Coarse, Heaving
144 TO 165	Sand: Slightly Silty, Coarse to Medium, Water Bearing
165 TO 180	Sandy Gravel: Small Water Bearing
180 TO 190	Sand: Coarse, Slightly Gravelly, Water Bearing
190 TO 198	Sandy Gravel: Small Water Bearing
TO	
TO	
TO	
TO	

If a water right is associated with a particular well, you may view the water right information by clicking on the water right tab

The screenshot displays the Alaska Department of Natural Resources Mining, Land & Water website. The header includes the State of Alaska logo and navigation links: myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. The main title is "Mining, Land & Water". Below the title, there are links for "Admin Login" and "Drillers". The breadcrumb trail shows "Natural Resources > MLW > WELTS". The main heading is "Well Log Tracking System (WELTS)".

The "Well Log 38068 Information" section is active. It features a "Return to Well Log Search" link and a tabbed interface. The "Well Log 38068" tab is selected, showing "Water Right: LAS 26961". A red arrow points to this tab. The "Owner Information" tab is also visible, displaying the following details:

Owner Information	
Last name:	RUTH BARNETT FISH HATCHERY
First name:	ADF&G
Address:	Not Available
City:	FAIRBANKS
State:	AK
Zip:	Not Available
Phone:	Not Available
Email:	Not Available

Other tabs visible in the interface include "Driller Information", "Location Information", "Well Data", and "Borehole Data".

A screen similar to the one on the right will appear.

The screenshot shows the Alaska Department of Natural Resources website. The header includes the state logo, navigation links (myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, State Employees), a search bar, and radio buttons for 'Natural Resources' (selected) and 'State of Alaska'. The breadcrumb trail is 'Natural Resources > Organizational Unit > LAS'. A green banner at the top of the main content area states: 'We are now accepting payments online for case agreements and mining claims bills! To make a payment by credit card or from your bank account, [click here](#).' Below this is a dark blue section titled 'Case, Land, and Water Information'. Underneath is a light blue section titled 'Search Records'. The main content area is titled 'Results - Case File Detail' with a 'Print' button. A 'Summary' section follows, containing a green bar with the file number 'LAS 26961' and links for 'Case Abstract', 'Case Summary', 'Land Abstract', 'Map', and 'Pending GIS Updates'. The date 'As of 01/26/2017' is shown in the top right of this section. The case details are listed in two columns: Customer: 000020125, DFG DIV COMM FISH REGION III, 333 RASPBERRY ROAD, ANCHORAGE AK 99518; Case Type: 801 WATER RIGHTS, DNR Unit: 800 WATER; File Location: WFBX WATER MGT-FAIRBANKS; Case Status: 35 PERMIT ISSUED, Status Date: 02/19/2010; Total Acres: 0.000, Date Initiated: 07/22/2008; Office of Primary Responsibility: WFBX WATER MGT-FAIRBANKS; Last Transaction Date: 04/17/2015, Case Subtype: SUB SUBSURFACE; Last Transaction: COMMENTS COMMENTS.

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Alaska Department of  
**Natural Resources**

Natural Resources > Organizational Unit > LAS

We are now accepting payments online for case agreements and mining claims bills! To make a payment by credit card or from your bank account, [click here](#).

**Case, Land, and Water Information**

**Search Records**

**Results - Case File Detail** [Print](#)

**Summary**

**File: LAS 26961** [Case Abstract](#) [Case Summary](#) [Land Abstract](#) [Map](#) [Pending GIS Updates](#)

As of 01/26/2017

**Customer:** 000020125 DFG DIV COMM FISH REGION III  
333 RASPBERRY ROAD  
ANCHORAGE AK 99518

**Case Type:** 801 WATER RIGHTS **DNR Unit:** 800 WATER

**File Location:** WFBX WATER MGT-FAIRBANKS

**Case Status:** 35 PERMIT ISSUED **Status Date:** 02/19/2010

**Total Acres:** 0.000 **Date Initiated:** 07/22/2008

**Office of Primary Responsibility:** WFBX WATER MGT-FAIRBANKS

**Last Transaction Date:** 04/17/2015 **Case Subtype:** SUB SUBSURFACE

**Last Transaction:** COMMENTS COMMENTS

To print or save a list of well logs, select the *Print* or *Save* button shown on the menu bar.

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## Well Log Tracking System (WELTS)

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Forms  Additional Helpful Information

[Welts User Guide](#) Search:

Search by key word and choose from suggestion dropdown list or use filter to narrow results

### Well Log Search Results

Show  entries   Filter:

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
34310		M-W DRILLING	10-Feb-10	STATE OF ALASKA, FISH AND GAME, ANCHORAGE SPORTS FISH	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (LAS 26625 AND 30333 TOO)
38068		M-W DRILLING	22-Oct-08	RUTH BARNETT FISH HATCHERY, ADF&G	Fairbanks North Star Borough	
39598		M-W DRILLING	10-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #1 GOLF COURSE AREA-ELMENDORF AFB
41613		M-W DRILLING	15-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #2 GOLF COURSE AREA-ELMENDORF AFB
41614		M-W DRILLING	05-Nov-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #3 GOLF COURSE AREA-ELMENDORF AFB

Showing 21 to 25 of 25 entries (filtered from 7,358 total entries)

After selecting the print button, a message similar to the one shown on the right will appear.

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
34310		M-W DRILLING	10-Feb-10	STATE OF ALASKA, FISH AND GAME, ANCHORAGE SPORTS FISH	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (LAS 26625 AND 30333 TOO)
38068		M-W DRILLING	22-Oct-08	RUTH BARNETT FISH HATCHERY, ADF&G	Fairbanks North Star Borough	
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Press ESCAPE when finished.

Print view

Please use your browser's print function to print this table.




The print window you see will vary depending on the browser you are using (example shown below using Chrome browser).

Print

Total: **1 sheet of paper**

**Print** Cancel

Destination  HP LaserJet P2035n (Co...  
Change...

Pages ☒ All  
☐ e.g. 1-5, 8, 11-13

Copies 1 + -

Layout Portrait ▼

Options ☐ Two-sided

+ More settings

Print using system dialog... (Ctrl+Shift+P)

10/6/2017

WELTS - Well Log Tracking System

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
34310		H-W DRILLING	10-Feb-10	STATE OF ALASKA, FISH AND GAME, ANCHORAGE SPORTS FISH	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (SAS 26428 AND 30333 TOG)
38068		H-W DRILLING	22-Oct-08	KATH BARNETT FISH HATCHERY, ADAMS	Fairbanks North Star Borough	
39598		H-W DRILLING	10-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #1 GOLF COURSE AREA- ELMENDORF AFB
41613		H-W DRILLING	15-Oct-75	DEPARTMENT OF FISH AND GAME	Municipality of Anchorage	FISH HATCHERY TEST WELLS, TEST WELL #2 GOLF COURSE AREA- ELMENDORF AFB
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To save, or electronically download the data, click the Save button as shown in the figure to the right. A window will pop-up giving you the option to save as a csv, Excel, or pdf file.

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Alaska Department of Natural Resources

# Mining, Land & Water

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Natural Resources > MLW > WELTS

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Forms

Select Form...

Additional Helpful Information

Choose Information...

[WELTS User Guide](#)

Search:

Driller Name

M-W DRILLING

Search by key word and choose from suggestion dropdown list or use filter to narrow results

### Well Log Search Results

Show

10

entries

Filter:

hatchery

Log ID	PWSID	Driller	Owner	Region	Parcel Description
34310		M-W DRILLING	ALASKA, FISH AND HORAGE SPORTS	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (LAS 26625 AND 30333 TOO)
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Showing 21 to 25 of 25 entries (filtered from 7,358 total entries)

1 2 3

CSV

Excel

PDF

After you make your selection, a window will pop-up at the bottom of your screen (the image may vary depending on the browser you are using). Click on the tab to open the file. You may save the file to the desired location.

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Forms  Additional Helpful Information

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#### Well Log Search Results

Show 10 entries   Filter:

Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
34310		M-W DRILLING	10-Feb-10	STATE OF ALASKA, FISH AND GAME, ANCHORAGE SPORTS FISH	Municipality of Anchorage	ANCHORAGE SPORTS FISH HATCHERY WELL #8 (LAS 26625 AND 30333 TOO)
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Showing 21 to 25 of 25 entries (filtered from 7,358 total entries)   1 2 3

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A6D09165\_DC16\_4....csv

Show all

# Please be aware . . .

Please note that the save function will not work properly for large datasets. Requests for full downloads of the database should be submitted in writing via email to:

[dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov)

# **Component 2:**

## **instructions for online reporting of water well logs**

For online reporting of water well logs one must first set up an Account  
this only needs to be completed once!

Information you will need to set up an account:

1. Company name
2. User name and password (user selects these)
3. Name of contact, business phone, and email
4. Business address


once an account is verified by an AHS hydrologist the user may  
report water well logs online

To set up an account, select *Drillers* on the WELTS Application Homepage which is accessible at the url below:

<https://dnr.alaska.gov/welts/>

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Search by key word and choose from suggestion dropdown list or use filter to narrow results

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Department of Natural Resources  
550 W. 7th Ave, Suite 1260, Anchorage, AK 99501-3557  
Phone: 907-269-8400 || Fax: 907-269-8901 || TTY: 907-269-8411






then click on *Register as a Driller*

 **State of Alaska**

[myAlaska](#) [My Government](#) [Resident](#) [Business in Alaska](#) [Visiting Alaska](#) [State Employees](#)

 Alaska Department of Natural Resources

# Mining, Land & Water

☐ Natural Resources ☐ State of Alaska

[Home](#)

[Natural Resources](#) > [MLW](#) > [WELTS](#)

## WELTS - Login

**Please enter your credentials**

Username

Password

[Register as a Driller](#)


[Forgot password?](#) [Forgot Username?](#)


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enter company name (please note this information will appear on the generated well log)

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 Alaska Department of Natural Resources  
**Mining, Land & Water**

☐ Natural Resources ☐ State of Alaska

[Admin Login](#) [Drillers](#)

[Natural Resources](#) > [MLW](#) > [WELTS](#)

## New Driller Registration

**Driller Registration**

Enter your company name.  
Company Name:

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enter your preferred username & password

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 Alaska Department of Natural Resources  
**Mining, Land & Water**

☐ Natural Resources ☐ State of Alaska

**Admin Login** **Drillers**

Natural Resources > MLW > WELTS

## New Driller Registration

**Driller Registration**

Username:


Password:

Re-enter Password:


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enter business contact information (please note this information will appear on the generated well log)

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**Mining, Land & Water**

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[Admin Login](#)   [Drillers](#)

Natural Resources > MLW > WELTS

## New Driller Registration

**Driller Registration**

First Name:

Middle Initial:

Last Name:

Email:


Day Phone:

Alt Phone:


Fax:

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enter business address (please note this information will appear on the generated well log)

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 Alaska Department of Natural Resources  
**Mining, Land & Water**

☒ Natural Resources ☐ State of Alaska

[Admin Login](#) [Drillers](#)

Natural Resources > MLW > WELTS

## New Driller Registration

**Driller Registration**

Driller Address:

City:

State:  ▼

Zip:

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verify business information is correct and select *register*

State of Alaska myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

Admin Login Drillers

Natural Resources > MLW > WELTS

### New Driller Registration

#### Driller Registration

Please verify your information below.

Enter your company name.

Company Name:

Username:

Password:

Re-enter Password:

First Name:

Middle Initial:

Last Name:

Email:

Day Phone:

Alt Phone:

Fax:

Driller Address:

City:

State:

Zip:



you will receive a confirmation window, select *ok*

The screenshot shows the website of the Alaska Department of Natural Resources, Mining, Land & Water. The header includes the state logo and navigation links: myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. A search bar is located on the right. Below the header, there are tabs for Admin Login and Drillers. The main content area displays a confirmation message for a new driller registration, stating that the account is pending review and a confirmation email will be sent. At the bottom, there is a footer with links for Privacy, Copyright, System Status, and Webmaster, along with contact information for the Department of Natural Resources. A modal dialog box is overlaid on the page, displaying the message "Driller Account Successfully Submitted!" and an "OK" button, which is highlighted by a red arrow.

State of Alaska

myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

Admin Login Drillers

Natural Resources > MLW > WELTS

### New Driller Registration

You have successfully registered a driller account for the Alaska Division of Mining, Land & Water - WELTS. Your account is currently pending review. Upon approval, you will receive a confirmation email with instructions to login to your driller account.

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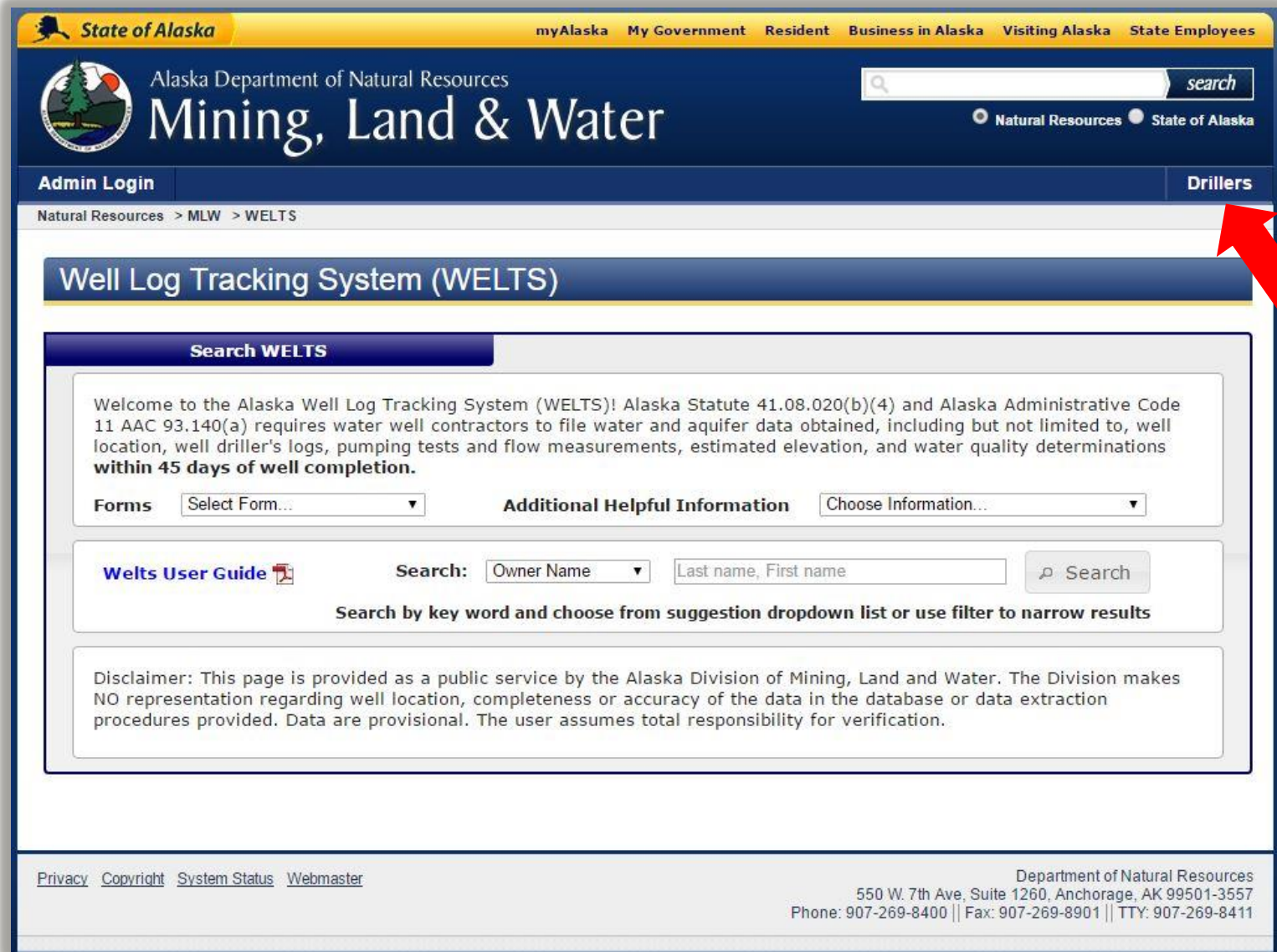
State of Alaska myAlaska My Government R

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**Driller Account Successfully Submitted!**

OK

After the Driller Account is Approved by AHS, the driller may Login by going to the WELTS homepage and selecting “Drillers” as shown below



The screenshot shows the homepage of the Alaska Department of Natural Resources Mining, Land & Water. The top navigation bar includes links for myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. The main header features the Alaska Department of Natural Resources logo and the text "Mining, Land & Water". A search bar is located in the top right corner. Below the header, there is a navigation bar with "Admin Login" and "Drillers". A red arrow points to the "Drillers" link. Below the navigation bar, the breadcrumb trail reads "Natural Resources > MLW > WELTS". The main content area is titled "Well Log Tracking System (WELTS)". Under the "Search WELTS" heading, there is a welcome message and a search form. The search form includes a "Forms" dropdown menu, a "Search:" label, a "Owner Name" dropdown menu, a "Last name, First name" text input field, and a "Search" button. Below the search form, there is a disclaimer and a footer with links for Privacy, Copyright, System Status, and Webmaster, as well as contact information for the Department of Natural Resources.

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Alaska Department of Natural Resources

Mining, Land & Water

search

Natural Resources State of Alaska

Admin Login Drillers

Natural Resources > MLW > WELTS

Well Log Tracking System (WELTS)

Search WELTS

Welcome to the Alaska Well Log Tracking System (WELTS)! Alaska Statute 41.08.020(b)(4) and Alaska Administrative Code 11 AAC 93.140(a) requires water well contractors to file water and aquifer data obtained, including but not limited to, well location, well driller's logs, pumping tests and flow measurements, estimated elevation, and water quality determinations **within 45 days of well completion.**

Forms Select Form... Additional Helpful Information Choose Information...

Welts User Guide Search: Owner Name Last name, First name Search

Search by key word and choose from suggestion dropdown list or use filter to narrow results

Disclaimer: This page is provided as a public service by the Alaska Division of Mining, Land and Water. The Division makes NO representation regarding well location, completeness or accuracy of the data in the database or data extraction procedures provided. Data are provisional. The user assumes total responsibility for verification.

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one may report water well logs by entering the  
username & password, then clicking on *Login*

The screenshot shows the WELTS Login page. At the top is the State of Alaska header with navigation links: myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. Below this is the Alaska Department of Natural Resources logo and the text "Mining, Land & Water". A search bar is on the right. The main content area has a breadcrumb trail: Natural Resources > MLW > WELTS. A blue banner reads "WELTS - Login". Below this is a login form titled "Please enter your credentials". The form contains fields for Username (filled with "JaneDoe") and Password (filled with "\*\*\*\*\*"). There is a "Register as a Driller" link and a "Login" button. A red arrow points to the "Login" button. Below the login form are links for "Forgot password?" and "Forgot Username?". The footer contains links for Privacy, Copyright, System Status, and Webmaster, along with contact information for the Department of Natural Resources.

State of Alaska

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Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

Home

Natural Resources > MLW > WELTS

**WELTS - Login**

**Please enter your credentials**

Username JaneDoe

Password \*\*\*\*\*

[Register as a Driller](#) [Login](#)

[Forgot password?](#) [Forgot Username?](#)

[Privacy](#) [Copyright](#) [System Status](#) [Webmaster](#)

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once you are logged in – you may search your well logs or report a water well log by selecting *Create Log*

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Alaska Department of Natural Resources  
**Mining, Land & Water**

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

**Create/Update/Delete Well logs**

Forms  Additional Helpful Information

Find One of Your Well Logs to Manage [Search ALL Well logs](#)

Search:  AHS Drilling

Disclaimer: This page is provided as a public service by the Alaska Division of Mining, Land and Water. The Division makes NO representation regarding well location, completeness or accuracy of the data in the database or data extraction procedures provided. Data are provisional. The user assumes total responsibility for verification.

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to report a water well log select *Owner Information* tab  
& enter the owner's information

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Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

**Owner Information**

\*Last name: Builders R Us

First name:

Address:

City:

State: ALASKA

Zip:

Phone:

Email:

Driller Information

Location Information

Well Data

Borehole Data

\* Indicates a required field

Submit

When one selects the *Driller Information* tab it should automatically be populated – no need to enter information

The screenshot shows the 'AHS Drilling - Manage Well Logs' web application. The 'Driller Information' tab is selected, and a red arrow points to it. The form contains pre-populated data for AHS Drilling.

Driller Information			
*Company Name:	AHS Drilling		
Driller Name:	First	M.I.	Last
	Jane	Not Available	Doe
Address:	550 W. 7th Ave		
City:	Anchorage		
State:	AK		
Zip:	99501		
Day Phone:	907-269-8646		
Alt Phone:	Not Available		
Fax:	Not Available		
Email:	janedoe@gci.net		

\* Indicates a required field

Submit

## then select the *Location Information* tab

there are a couple of ways to populate this tab – we will look at 2 examples

Example 1 – suppose that one is drilling a well in the Municipality of Anchorage (adjacent to the Atwood Bldg) but doesn't have a GPS. Select the Municipality of Anchorage (MOA) from the drop-down menu shown for REAA/Borough. Then select the *use a map* icon shown below:



The screenshot shows the 'AHS Drilling - Manage Well Logs' web application. The 'Location Information' tab is selected. The form includes fields for Latitude, Longitude, REAA/Borough (a dropdown menu), Nearest City, Subdivision, Lot, Block, Tract, Meridian, Township, Range, Section, and Quarter Sections. A 'Use a map!' link is visible next to the Longitude field. The sidebar on the left shows 'Location Information' as the active tab. A red arrow points to the 'REAA/Borough' dropdown menu, another red arrow points to the 'Use a map!' link, and a third red arrow points to the 'Latitude' and 'Longitude' input fields. A fourth red arrow points to the 'Nearest City' field.



Note the mapping tool is case sensitive so if you enter the nearest city use lowercase

# *Location Information* tab con't.

the map window appears and the selected MOA is highlighted, select the zoom in icon (+) to zoom in to the location of the drilled well

The screenshot shows the 'AHS Drilling - Manage Well Logs' web application. The top navigation bar includes links for 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. The main header features the 'Alaska Department of Natural Resources' logo and the text 'Mining, Land & Water'. A search bar is located on the right. Below the header, there are tabs for 'My Well logs' and 'AHS Drilling'. The 'AHS Drilling' tab is active, showing a 'Create New Well Log.' button and a 'Return to Well Log Search' link. The main content area is divided into several sections: 'Owner Information', 'Driller Information', 'Location Information' (which is the active tab), 'Well Data', and 'Borehole Data'. The 'Location Information' section contains a map of Alaska with a red arrow pointing to the zoom in (+) icon. The map shows the Anchorage area and the Kenai National Wildlife Refuge. A legend at the bottom left indicates that a red asterisk (\*) indicates one of the fields are required. A 'Submit' button is located at the bottom right.



# *Location Information* tab con't.

users also have the option to change the basemap (several options are available and may be accessed by selecting the drop-down menu)

The screenshot shows the 'AHS Drilling - Manage Well Logs' form on the Alaska Department of Natural Resources website. The form is titled 'Create New Well Log.' and includes a 'Return to Well Log Search' button. It features a map of Anchorage, Alaska, with a red arrow pointing to the 'Open Street Map' dropdown menu. The map shows various locations including Merrill Field, Russian Jack Springs Park, Campbell Park, and Campbell Airstrip. The form also includes sections for 'Owner Information', 'Driller Information', 'Location Information', 'Well Data', and 'Borehole Data'. A 'Submit' button is located at the bottom right of the form.

State of Alaska

myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Natural Resources

Mining, Land & Water

search

Natural Resources State of Alaska

My Well logs

AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search

Upload Well Log PDF

Update Water Right

Click here when done.

Open Street Map

AK 1

Anchorage

Merrill Field

Russian Jack Springs Park

Campbell Park

Campbell Airstrip

Owner Information

Driller Information

Location Information

Well Data

Borehole Data

\* Indicates one of these fields are required

Submit

# *Location Information* tab con't.

click on the drilled well location and then select the *click here when done* icon

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Alaska Department of Natural Resources  
**Mining, Land & Water** search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

## AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Owner Information

Driller Information

Location Information

Click here when done.



SDMI BDL

Well Data

Borehole Data

\* Indicates one of these fields are required

Submit

# *Location Information* tab con't.

the window shown below will pop-up and ask the user to confirm using the mapped location, select *yes*

The screenshot displays the 'AHS Drilling - Manage Well Logs' web application. The page has a header for the 'State of Alaska' and 'Alaska Department of Natural Resources Mining, Land & Water'. A navigation bar includes links like 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. Below this, there's a search bar and radio buttons for 'Natural Resources' and 'State of Alaska'. The main content area is titled 'AHS Drilling - Manage Well Logs' and features a 'Create New Well Log.' button. A sidebar on the left contains tabs for 'Owner Information', 'Driller Information', and 'Location Information' (which is highlighted). The main area shows a map with a yellow location pin. A modal dialog box titled 'Attention!' is overlaid on the map, asking 'Use the location data from the currently mapped location?' with 'Yes', 'No', and 'Cancel' buttons. A red arrow points to the 'Yes' button. At the bottom, there's a 'Submit' button and a note: '\* Indicates one of these fields are required'.



## *Location Information* tab con't.

note that the latitude, longitude nearest city and MTRS will automatically be populated however, the user will need to enter the subdivision, lot, block and address. If this information is not known enter NONE

The screenshot shows the 'AHS Drilling - Manage Well Logs' interface. The 'Location Information' tab is active, displaying a form with various fields. Red arrows point to the 'Latitude' and 'Longitude' fields, which are pre-populated. Yellow arrows point to the 'Subdivision', 'Lot', 'Block', and 'Tract' fields, which are empty. A red arrow also points to the 'Meridian' dropdown menu. The 'Misc. Parcel Information/Description' section contains a text area with the placeholder '[address information entered here]'. The form is surrounded by vertical tabs for 'Owner Information', 'Driller Information', 'Location Information', 'Well Data', and 'Borehole Data'. The 'Location Information' tab is currently selected.

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Alaska Department of Natural Resources

Mining, Land & Water

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Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Location Information Use a map!

Latitude: 61.21532849657524 Longitude: -149.89209651947021

Parcel Location MTRS

REAA/Borough: Municipality of Anchorage

Nearest City: Anchorage

Subdivision:

Lot:

Block:

Tract:

Meridian: Seward

Township: 013N

Range: 003W

Section: 18

Quarter Sections: SE of NE of NW of SW of

Misc. Parcel Information/Description

[address information entered here]

\* Indicates one of these fields are required

Submit

## Location Information tab con't.

Example 2 – suppose the user drilled a well in the Municipality of Anchorage (adjacent to the Atwood Bldg) and has a GPS, or smart phone – enter the latitude and longitude (please add a negative sign in front of the longitude coordinate so that it appears in the correct hemisphere) then click on the *Use a map icon*

The screenshot shows the 'AHS Drilling - Manage Well Logs' web application. The 'Location Information' tab is selected in the left sidebar. The main form contains the following fields:

- Latitude:** 61.215328
- Longitude:** -149.892096
- Use a map!** (link with a map icon)
- Parcel Location:**
  - City/Borough: Choose one...
  - Nearest City:
  - \*Subdivision:
  - Lot:
  - Block:
  - Tract:
- MTRS:**
  - Meridian: Choose one...
  - Township:
  - Range:
  - Section: Choose one...
  - Quarter Sections: of of
- Misc. Parcel Information/Description:**

At the bottom, there is a 'Submit' button and a note: '\* Indicates one of these fields are required'.

## *Location Information* tab con't.

verify that the location for the coordinates entered appears correct, zoom in if necessary by selecting the (+) icon

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**Mining, Land & Water**

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Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELT S

### AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Click here when done.

Owner Information  
Driller Information  
Location Information

SDMI BDL

Well Data  
Borehole Data

\* Indicates one of these fields are required

Submit



# Location Information tab con't.

select the *Click here when done* icon



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Alaska Department of Natural Resources

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Natural Resources State of Alaska

My Well logs

AHS Drilling

Natural Resources > MLW > WELT S

## AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search

Upload Well Log PDF Update Water Right

Owner Information

Driller Information

Location Information

Click here when done.



SDMI BDL

Well Data

Borehole Data

\* Indicates one of these fields are required

Submit



# *Location Information* tab con't.

the window shown below will pop-up and ask the user to confirm using the mapped location, select yes

The screenshot shows the Alaska Department of Natural Resources Mining, Land & Water website. The page is titled "AHS Drilling - Manage Well Logs" and includes a "Create New Well Log" button. A confirmation dialog box titled "Attention!" is overlaid on the map, asking "Use the location data from the currently mapped location?". The dialog box has three buttons: "Yes", "No", and "Cancel". A red arrow points to the "Yes" button. The background map shows an aerial view of a residential area with a yellow dot indicating a location. The website header includes the State of Alaska logo and navigation links for myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. The page also features a search bar and a "Natural Resources" / "State of Alaska" toggle.

State of Alaska

myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Natural Resources  
Mining, Land & Water

search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Click here when done

Owner Information Driller Information Location Information Well Data Borehole Data

**Attention!**

Use the location data from the currently mapped location?

Yes No Cancel

\* Indicates one of these fields are required

Submit

# Location Information tab con't.

note that the nearest borough, city and MTRS will automatically be populated however, the user will need to enter the subdivision, lot, block, and address. If this information is not known enter NONE

The screenshot shows the 'AHS Drilling - Manage Well Logs' interface. The 'Location Information' tab is active, displaying a form with the following sections:

- Location Information:** Latitude: 61.21532800000003, Longitude: -149.892096. A red arrow points to the 'Use a map!' link.
- Parcel Location:**
  - REAA/Borough: Choose one... (dropdown)
  - Nearest City: Anchorage
  - \*Subdivision: (text input)
  - Lot: (text input)
  - Block: (text input)
  - Tract: (text input)
- MTRS:**
  - Meridian: Seward (dropdown)
  - Township: 013N
  - Range: 003W
  - Section: 18 (dropdown)
  - Quarter Sections: SE of NE of NW of SW (dropdowns)
- Misc. Parcel Information/Description:** [address information entered here] (text input). A red arrow points to this field.

Yellow arrows point to the 'Location Information' tab and the 'Subdivision' field. A red arrow points to the 'Meridian' dropdown. A 'Submit' button is at the bottom right. A footer note states: '\* Indicates one of these fields are required'.



# Select *Well Data* tab

then select *general well info* tab and enter requested information

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Mining, Land & Water

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My Well logs

AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search

Upload Well Log PDF

Update Water Right

Well Data

Drilling Started: Nov 17, 2016

Drilling Completed: Nov 18, 2016

General Well info

Decommissioned: No

Drilling Method: Air Rotary

Fluids Used: water

Well Use: Public Supply

PWSID: AK2

Depth of Hole: 202.5

Depth to Bedrock:

Well Intake info

Well Casing info

Water Pumping info

Grout info

Well Pump info

Disinfection info

Borehole Data

\* Indicates a required field

Submit

If the well is used for public supply, the PWSID number may be entered if known

You may use the scroll bar to move up or down the general well info tab

## Well Data tab con't.

Select *well intake info* tab and enter requested information

The screenshot shows the 'AHS Drilling - Manage Well Logs' interface. At the top, there's a navigation bar with links like 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. Below this is the 'Alaska Department of Natural Resources Mining, Land & Water' header. The main content area is titled 'AHS Drilling - Manage Well Logs'. On the left, there's a sidebar with tabs: 'Owner Information', 'Driller Information', 'Location Information', and 'Well Data'. The 'Well Data' tab is selected. Inside the 'Well Data' tab, there's a 'Well Intake info' section. This section contains fields for 'Well Intake opening type' (set to 'Open End'), 'Screen type', 'Screen mesh size', 'Screen start depth', 'Screen stop depth', and 'Perforated'. A red arrow points to the scroll bar on the right side of the 'Well Intake info' section. Below the 'Well Intake info' section, there are several expandable sections: 'Well Casing info', 'Water Pumping info', 'Grout info', 'Well Pump info', and 'Disinfection info'. At the bottom, there's a 'Submit' button and a note: '\* Indicates a required field'.

You may use the scroll bar to move up or down the well intake info tab

## Well Data tab con't.

Select *well casing info* tab and enter requested information

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Alaska Department of Natural Resources

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My Well logs AHS Drilling

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

**Well Data**

Drilling Started: Nov 17, 2016 Drilling Completed: Nov 18, 2016

General Well info

Well Intake info

**Well Casing info**

Casing Type: Steel Casing Stickup: 2.5 ft.

Casing Thickness: 0.25 inches Casing Diameter: 6 inches

Casing Depth: 202.5 ft.

Liner Type: Liner Diameter: inches

Liner

Water Pumping info

Grout info

Well Pump info

Disinfection info

\* Indicates a required field

Submit

You may use the scroll bar to move up or down the well casing info tab

## Well Data tab con't.

select *water pumping info* tab and enter requested information

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My Well logs AHS Drilling

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

**Well Data**

Drilling Started: Nov 17, 2016 Drilling Completed: Nov 18, 2016

General Well info

Well Intake info

Well Casing info

**Water Pumping info**

Static water depth (from top of casing): Artesian well?  
70 ft. taken on Nov 18, 2016

**Pumping Level & Yield:**  
ft. after hours at gpm

**Recovery rate:** gpm

**Method of Testing:**

**Development Method:**

Grout info

Well Pump info

Disinfection info

Borehole Data

\* Indicates a required field

Submit

You may use the scroll bar to move up or down the water pumping info tab

Well Data tab con't.  
select *grout info* tab and enter requested information

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Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

**Well Data**

Drilling Started: Nov 17, 2016 Drilling Completed: Nov 18, 2016

Owner Information Driller Information Location Information **Well Data** Borehole Data

General Well info  
Well Intake info  
Well Casing info  
Water Pumping info

**Grout info**

Grout: Type: bentonite  
Volume:  
Depth: From: 0 ft. To: 10 ft.

Well Pump info  
Disinfection info

\* Indicates a required field

Submit



# Well Data tab con't.

select *well pump info* tab and enter requested information

The screenshot shows the 'AHS Drilling - Manage Well Logs' interface. At the top, there's a navigation bar with 'State of Alaska' and links like 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. Below this is the 'Alaska Department of Natural Resources Mining, Land & Water' header with a search bar and radio buttons for 'Natural Resources' and 'State of Alaska'. The main content area has a 'My Well logs' tab and an 'AHS Drilling' gear icon. The breadcrumb trail is 'Natural Resources > MLW > WELTS'. The title bar reads 'AHS Drilling - Manage Well Logs'. Below this is a 'Create New Well Log.' button. The main form has a 'Return to Well Log Search' link and two buttons: 'Upload Well Log PDF' and 'Update Water Right'. The form is divided into several sections: 'Owner Information', 'Driller Information', 'Location Information', 'Well Data' (selected), and 'Borehole Data'. The 'Well Data' section includes 'Drilling Started' (Nov 17, 2016) and 'Drilling Completed' (Nov 18, 2016). It lists several expandable sections: 'General Well info', 'Well Intake info', 'Well Casing info', 'Water Pumping info', 'Grout info', 'Well Pump info' (expanded), and 'Disinfection info'. The 'Well Pump info' section contains the following fields: 'Pump Install Date' (Nov 18, 2016), 'Pump Model' (empty), 'Pump Brand Name' (empty), 'Pump intake depth' (190 ft.), and 'Pump size' (empty hp). A legend at the bottom left states '\* Indicates a required field'. A 'Submit' button is at the bottom right.

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Alaska Department of Natural Resources Mining, Land & Water search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Owner Information Driller Information Location Information Well Data Borehole Data

Well Data

Drilling Started: Nov 17, 2016 Drilling Completed: Nov 18, 2016

General Well info

Well Intake info

Well Casing info

Water Pumping info

Grout info

Well Pump info

Pump Install Date: Nov 18, 2016

Pump Model:

Pump Brand Name:

Pump intake depth: 190 ft.

Pump size: hp

Disinfection info

\* Indicates a required field Submit

# Well Data tab con't.

select *disinfection info* tab and enter requested information

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My Well logs AHS Drilling

Natural Resources > MLW > WELTS

**AHS Drilling - Manage Well Logs**

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

**Well Data**

Drilling Started: Nov 17, 2016 Drilling Completed: Nov 18, 2016

Owner Information Driller Information Location Information **Well Data** Borehole Data

General Well info

Well Intake info

Well Casing info

Water Pumping info

Grout info

Well Pump info

**Disinfection Info**

Well disinfected upon completion: Yes

Method of Disinfection: chlorine pellets

Water Quality Tested: Choose one...

Water Quality Params Tested:

\* Indicates a required field

Submit

You may use the scroll bar to move up or down the Disinfection info tab

# Select *Borehole Data* tab

one may enter lithology & depth information by selecting the (+) icon (please note the lithology should be reported with reference to ground surface, and not from top of casing, one may also edit or delete a previously entered lithology by selecting the pencil (✎) icon or the delete (✕) icon - select the submit tab to report the information

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My Well logs AHS Drilling

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AHS Drilling - Manage Well Logs

Create New Well Log.

Return to Well Log Search Upload Well Log PDF Update Water Right

Owner Information Driller Information Location Information Well Data Borehole Data

Borehole Data: (from ground surface)

Depth:	0ft. to 10ft.	✎ ✕
Depth:	10ft. to 20ft.	✎ ✕
Depth:	20ft. to 30ft.	✎ ✕
Depth:	30ft. to 40ft.	✎ ✕
Depth:	40ft. to 80ft.	✎ ✕
Depth:	80ft. to 125ft.	✎ ✕
Depth:	125ft. to 170ft.	✎ ✕
Depth:	170ft. to 202.5ft.	✎ ✕

sand and gravels

\* Indicates a required field

Submit



**WELTS will not allow one to submit lithologic information if symbols such as: & or parenthesis ( ) are used in lithologic descriptions**

Note required fields missing data are highlighted in pink. WELTS will not permit submittal until required fields are populated. If information for a required field is not known, the user may enter “NONE”

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Alaska Department of Natural Resources

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☒ Natural Resources☐ State of Alaska

My Well logs

AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create New Well Log.

You must upload a well log!

Return to Well Log Search

Upload Well Log PDFUpdate Water Right

Owner Information

Driller Information

Edit Well Log File Information

Upload New Well Log PDF: Upload a file

OKCancel

Depth:125ft. to

Depth:170ft. to 202ft.

sand and gravels

\* Indicates a required field

Submit

Browse to the directory with the portable document format (pdf) file you wish to upload – for example the AHS Drilling logo (fictitious) pdf file shown below

**AHS Drilling (fictitious)**

550 W. 7<sup>th</sup> Ave  
Anchorage, AK 99501  
(907) 269-8646



**please note the file  
must be a pdf - the  
system will not  
permit upload of  
non-pdf files**



# Wait patiently while loading . . . takes a few seconds

WELTS application assigns the well log identification number

The screenshot shows the 'AHS Drilling - Manage Well Logs' interface. At the top, there's a navigation bar with 'State of Alaska' and links for 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. Below this is the 'Alaska Department of Natural Resources Mining, Land & Water' header with a search bar and radio buttons for 'Natural Resources' and 'State of Alaska'. The main content area is titled 'AHS Drilling - Manage Well Logs' and contains a 'Well Log 45253 Information' section. This section has a 'Return to Well Log Search' button and a 'Well Log 45253' button with a red arrow pointing to it. To the right of the 'Well Log 45253' button is an 'Update Water Right' button. Below these buttons is a table with columns for 'Owner Information', 'Driller Information', 'Location Information', 'Well Data', and 'Borehole Data'. The 'Borehole Data' column is expanded, showing a table of depth ranges from 0ft. to 10ft. to 170ft. to 202.5ft. Each row has an edit icon and a delete icon. At the bottom, there's a legend indicating that a red asterisk indicates a required field, and an 'Update' button.

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Alaska Department of Natural Resources Mining, Land & Water search

Natural Resources State of Alaska

My Well logs AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Well Log 45253 Information

Return to Well Log Search Well Log 45253 Update Water Right

Owner Information	Driller Information	Location Information	Well Data	Borehole Data
				<b>Borehole Data: (from ground surface)</b>
				Depth: 0ft. to 10ft. [edit] [x]
				Depth: 10ft. to 20ft. [edit] [x]
				Depth: 20ft. to 30ft. [edit] [x]
				Depth: 30ft. to 40ft. [edit] [x]
				Depth: 40ft. to 80ft. [edit] [x]
				Depth: 80ft. to 125ft. [edit] [x]
				Depth: 125ft. to 170ft. [edit] [x]
				Depth: 170ft. to 202.5ft. [edit] [x]

\* Indicates a required field Update



Note uploading a new pdf file will overwrite the existing well log!  
If a well is deepened or decommissioned, first download the existing well log (pdf) and compile it with the new well log/decommissioned form - then upload the compiled pdf

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My Well logs AHS Drilling

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Well Log 45253 Information

Return to Well Log Search Well Log 45253 Update Water Right

**Warning!**

Uploading a new well log will overwrite the existing well log.

**Do you wish to proceed?**

Yes No

Owner Information Driller Information

Depth: 125ft. to 170ft.

Depth: 170ft. to 202.5ft.

\* Indicates a required field

Update

# following submittal - information entered in reporting system populates water well log form & appends uploaded file



STATE OF ALASKA 45253  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINING, LAND & WATER  
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2018

Drilling Started: 11 / 17 / 2016 Completed: 11 / 18 / 2016 Pump Install: 11 / 18 / 2016

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Anchorage	Majestic Views	1	7	Builders R Us , AK

Well location: Latitude 61.21533 Longitude -149.89209  
Meridian S Township 013N Range 003W Section 18 SE 1/4 of NE 1/4 of NW 1/4 of SW 1/4

**BOREHOLE DATA:** (from ground surface)  
Suggest T.M. Hanna's hydrogeologic classification system\*  
<https://my.ngwa.org/NGWA/Product?id=a185000000BYu53AAD>

Depth	From	To
silt and gravels	0.0	10.0
silt and gravels	10.0	20.0
sand and gravels	20.0	30.0
boulders	30.0	40.0
sand and gravels	40.0	80.0
boulders	80.0	125.0
gravels	125.0	170.0
sand and gravels	170.0	202.5

Drilling method: ☒ Air rotary ☐ Cable tool ☐ Other  
Well use: ☐ Public supply ☐ Domestic ☐ Reinjection ☐ Hydrofracking  
☐ Commercial ☐ Observation/Monitoring ☐ Test/Exploratory ☐ Cooling  
☐ Irrigation/Agriculture ☐ Grounding ☐ Recharge/Aquifer Storage  
☐ Heating ☐ Geothermal Exploration ☐ Other

Fluids used: water  
Depth of hole: 202.5 ft Casing stickup: 2.5 ft  
Casing type: Steel Casing thickness: 0.25 inches  
Casing diameter: inches Casing depth: 202.5 ft  
Liner type: Depth: ft Diameter: inches  
Note:

Well intake opening type: ☒ Open end ☐ Open hole ☐ Other  
Screen type: Screen mesh size: ft  
Screen start: ft Screen stop: ft Perforated ☐ Yes ☒ No  
Perforation description: Perf from: ft Perf to: ft  
Gravel packed ☐ Yes ☒ No Gravel start: ft Gravel stop: ft  
Note:

Static water (from top of casing): 70 ft on 11 / 18 / 2016 Artesian well ☐  
Pumping level & yield: feet after hours at gpm  
Method of testing: Duration: gpm  
Development method: Recovery rate: gpm  
Grout type: bentonite Volume: ft  
Depth: From 0 ft To 10 ft

Final pump intake depth: 190 ft Model: Pump size: hp Brand name: Was well disinfected upon completion? ☒ Yes ☐ No  
Method of disinfection: chlorine pellets  
Was water quality tested? ☐ Yes ☐ No  
Water quality parameters tested: Well driller name: Jane Doe  
Company name: AHS Drilling  
Mailing address: 550 W. 7th Ave  
City: Anchorage State: AK Zip: 99501  
Phone number: (907) 269-8646  
Driller's signature: Date: / /  
Anchorage Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require that a copy of this well log be submitted to the Development Services Department/City within 30 days of well completion.  
City Permit Number: Date of Issue: / / Parcel Identification Number: - - -

AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within 45 days of well completion. Well logs may be submitted using the online well log reporting system available at:  
<https://dnr.alaska.gov/wells/>  
OR email electronic well logs to  
[dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov)

Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press

## AHS Drilling (fictitious)

550 W. 7<sup>th</sup> Ave  
Anchorage, AK 99501  
(907) 269-8646



after the well log submittal is approved by AHS the well log becomes visible to the public, but the driller will still be able to view the log while it is pending approval

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Alaska Department of Natural Resources

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My Well logs

 **AHS Drilling**

Natural Resources > MLW > WELTS

AHS Drilling - Manage Well Logs

Create/Update/Delete Well logs

Forms

Additional Helpful Information

Find One of Your Well Logs to Manage

[Search ALL Well logs](#)

Search:  AHS Drilling

Well Log Search Results

Show  entries

Filter:

View	Update	Log ID	PWSID	Driller	Date of Completion	Owner	Region	Parcel Description
		45253	000000	AHS Drilling	18-Nov-16	Builders R Us		

Showing 1 to 1 of 1 entries

1

# Please be aware . . .

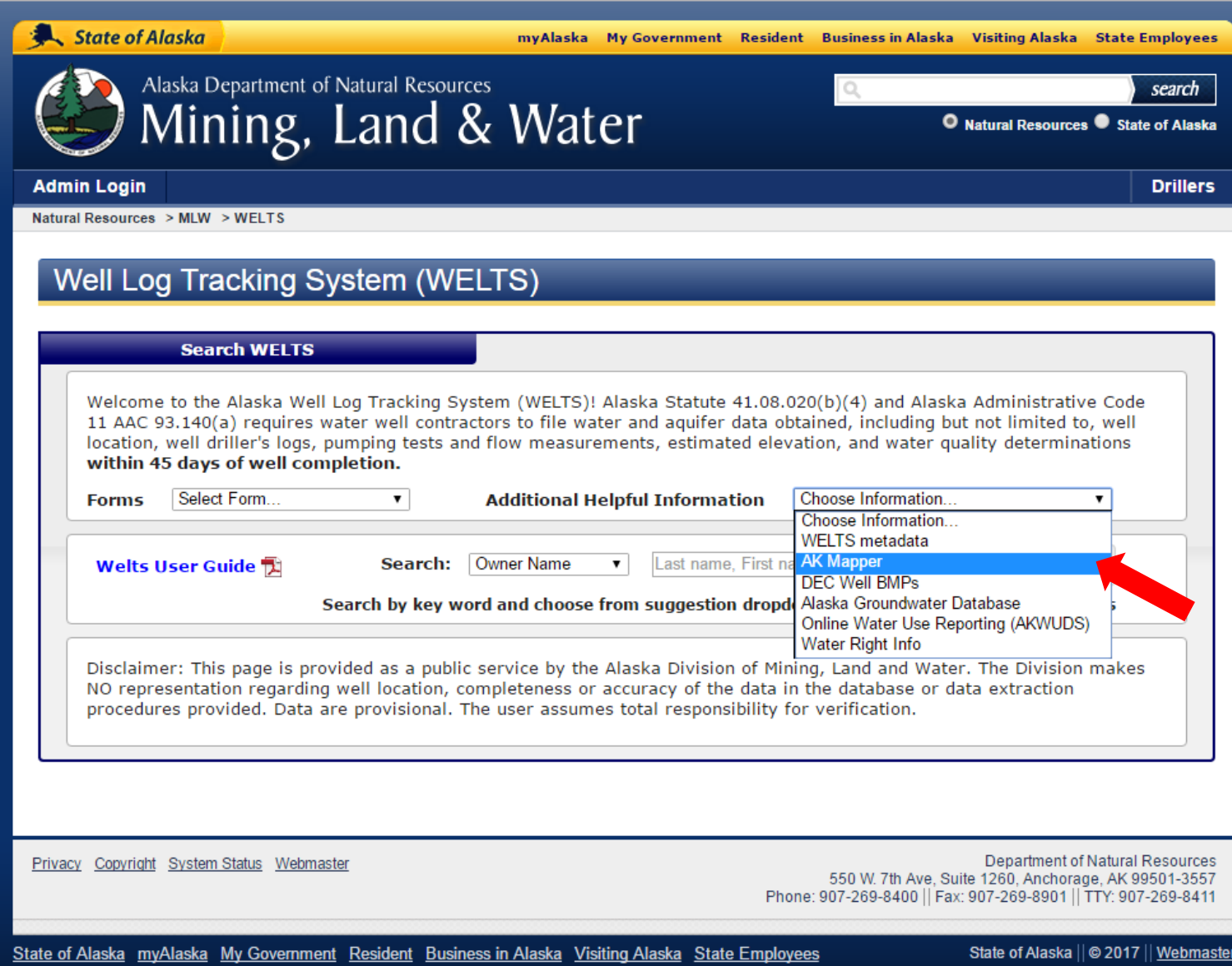
- ❑ Older versions of WELTS permitted the use of symbols such as “&” and parenthesis ( ) when entering data and names of companies. If one tries to upload a new compiled pdf, WELTS will not permit upload until the symbol(s) is/are removed.
- ❑ Problems that may be encountered can be browser specific, so please provide the type of browser and a screen capture of any error messages you receive and send to:  
[dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov).



# **Component 3:**

## **instructions for using WELTS in Alaska Mapper**

To conduct a search for well logs in Alaska Mapper, select the AK Mapper tool listed in the Additional Helpful Information drop-down menu on the WELTS home page



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Alaska Department of Natural Resources  
**Mining, Land & Water**

search

Natural Resources State of Alaska

Admin Login Drillers

Natural Resources > MLW > WELTS

## Well Log Tracking System (WELTS)

### Search WELTS

Welcome to the Alaska Well Log Tracking System (WELTS)! Alaska Statute 41.08.020(b)(4) and Alaska Administrative Code 11 AAC 93.140(a) requires water well contractors to file water and aquifer data obtained, including but not limited to, well location, well driller's logs, pumping tests and flow measurements, estimated elevation, and water quality determinations **within 45 days of well completion.**

Forms

**Additional Helpful Information** Choose Information...  
Choose Information...  
WELTS metadata  
**AK Mapper**  
DEC Well BMPs  
Alaska Groundwater Database  
Online Water Use Reporting (AKWUDS)  
Water Right Info

[WELTS User Guide](#) 

Search:

Search by key word and choose from suggestion dropdown

Disclaimer: This page is provided as a public service by the Alaska Division of Mining, Land and Water. The Division makes NO representation regarding well location, completeness or accuracy of the data in the database or data extraction procedures provided. Data are provisional. The user assumes total responsibility for verification.

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Department of Natural Resources  
550 W. 7th Ave, Suite 1260, Anchorage, AK 99501-3557  
Phone: 907-269-8400 || Fax: 907-269-8901 || TTY: 907-269-8411

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Click on the button *Launch Alaska Mapper (Advanced)*. Note that the User Guide for Alaska Mapper is available on the homepage

The screenshot shows the homepage of the Alaska Department of Natural Resources' Alaska Mapper. The header includes the State of Alaska logo and navigation links: myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. The main header features the Alaska Department of Natural Resources logo and a search bar. Below the header is a breadcrumb trail: Natural Resources > Information Resource Management > Alaska Mapper > Home.

## Welcome to Alaska Mapper

Interactive access to State of Alaska land records.

Query, research and verify state land ownership and land use. The information displayed is for graphic illustration only. Source documents remain the official record. Consult the DNR Land Administration System (LAS) case file or the Records Office for additional information.

Additional help may be obtained from the [DNR Public Information Centers](#) located in Anchorage, Fairbanks and Juneau.

**Welcome,** [Logout](#)

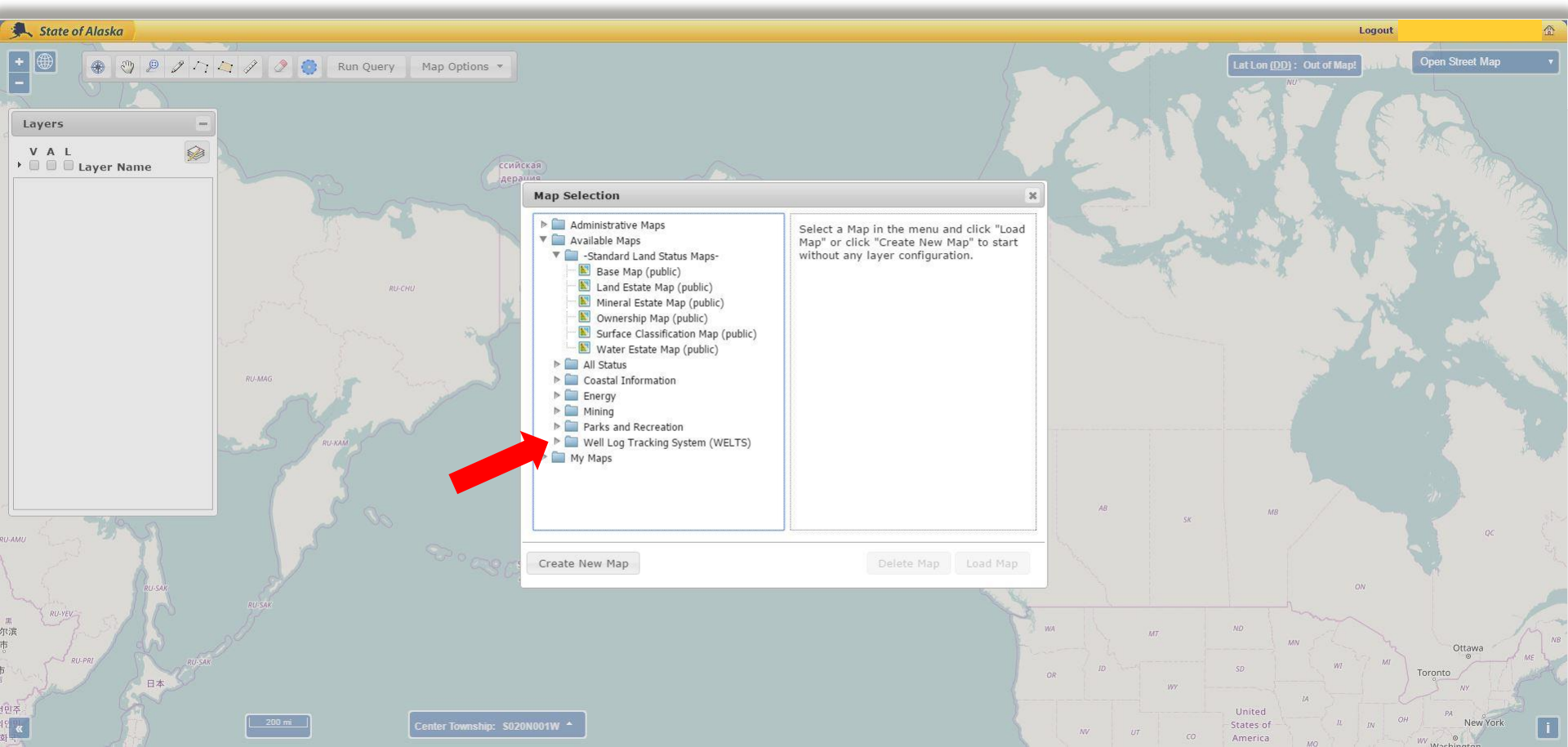
[Log In as a SOA employee](#)  
[Log In using My Alaska](#)  
[Log In with your Google Account](#)

[Launch Alaska Mapper \(Advanced\)](#) [Launch Alaska Mapper \(Lite\)](#)

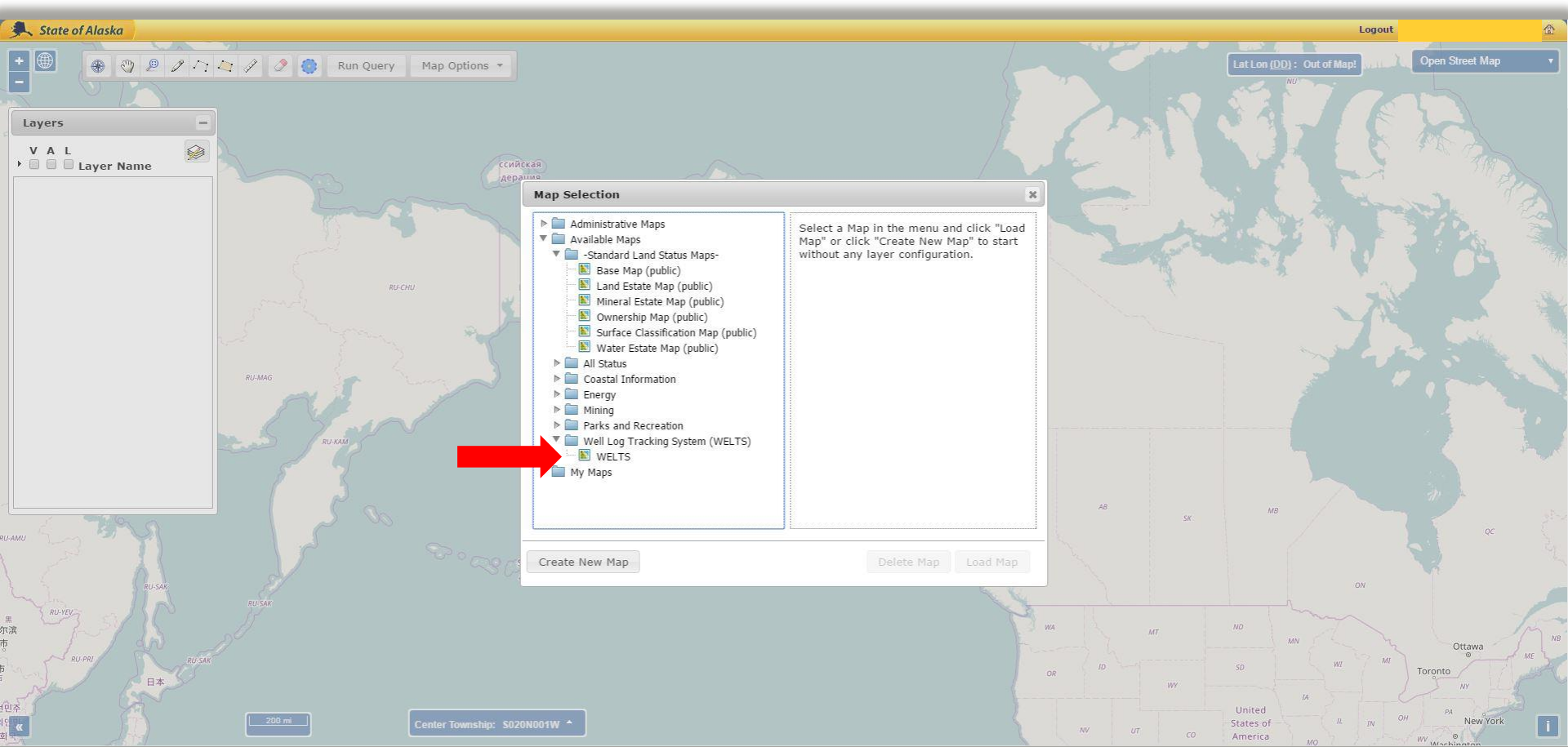
[User Guide](#) [User Guide \(Lite\)](#) [Privacy](#) [Copyright](#) [System Status](#) [Webmaster](#)

Department of Natural Resources  
550 W. 7th Ave, Suite 1260, Anchorage, AK 99501-3557  
Phone: 907-269-8400 || Fax: 907-269-8901 || TTY: 907-269-8411

Then click the arrow for the *Well Log Tracking System (WELTS)* as shown below:

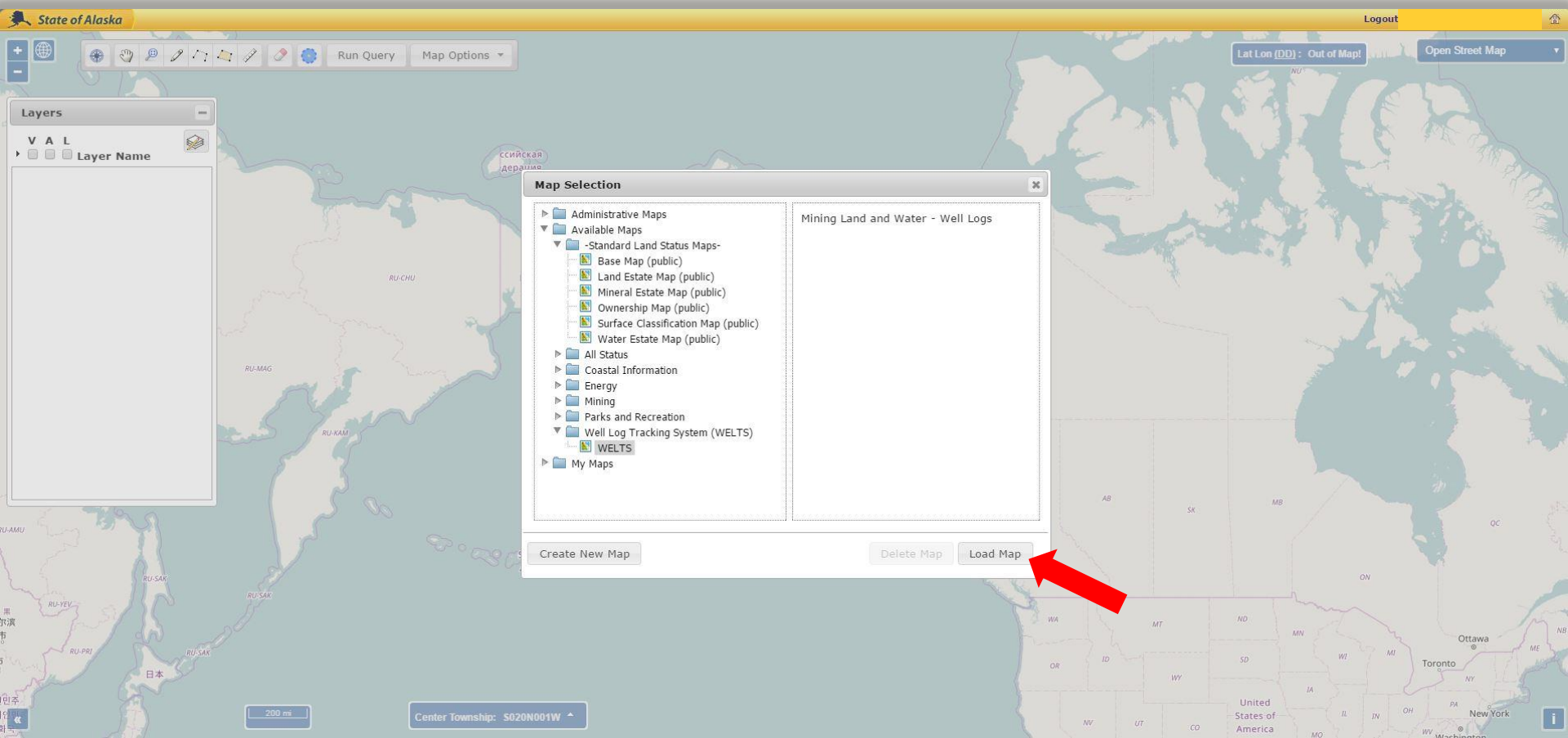


The WELTS icon will appear, click on the WELTS icon :

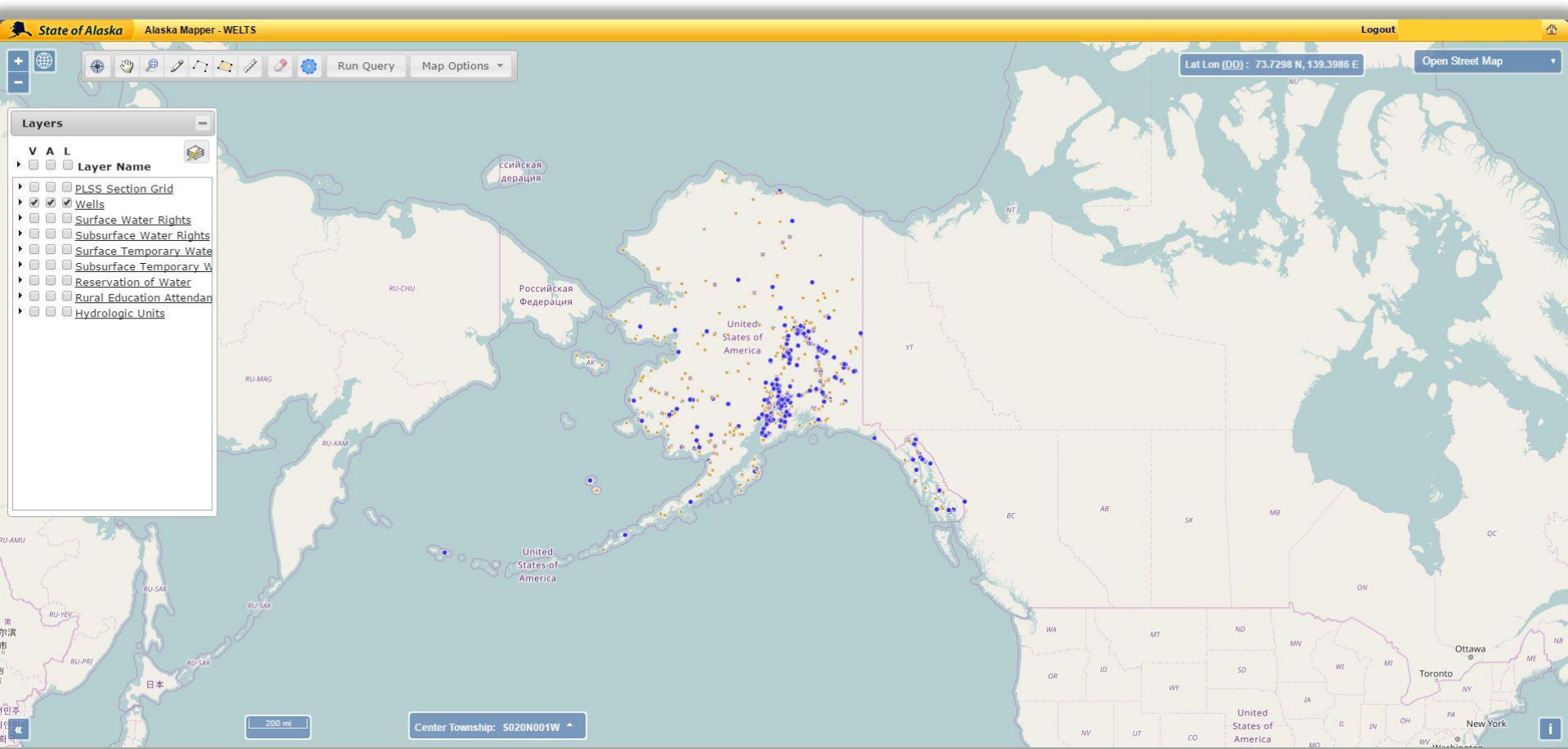




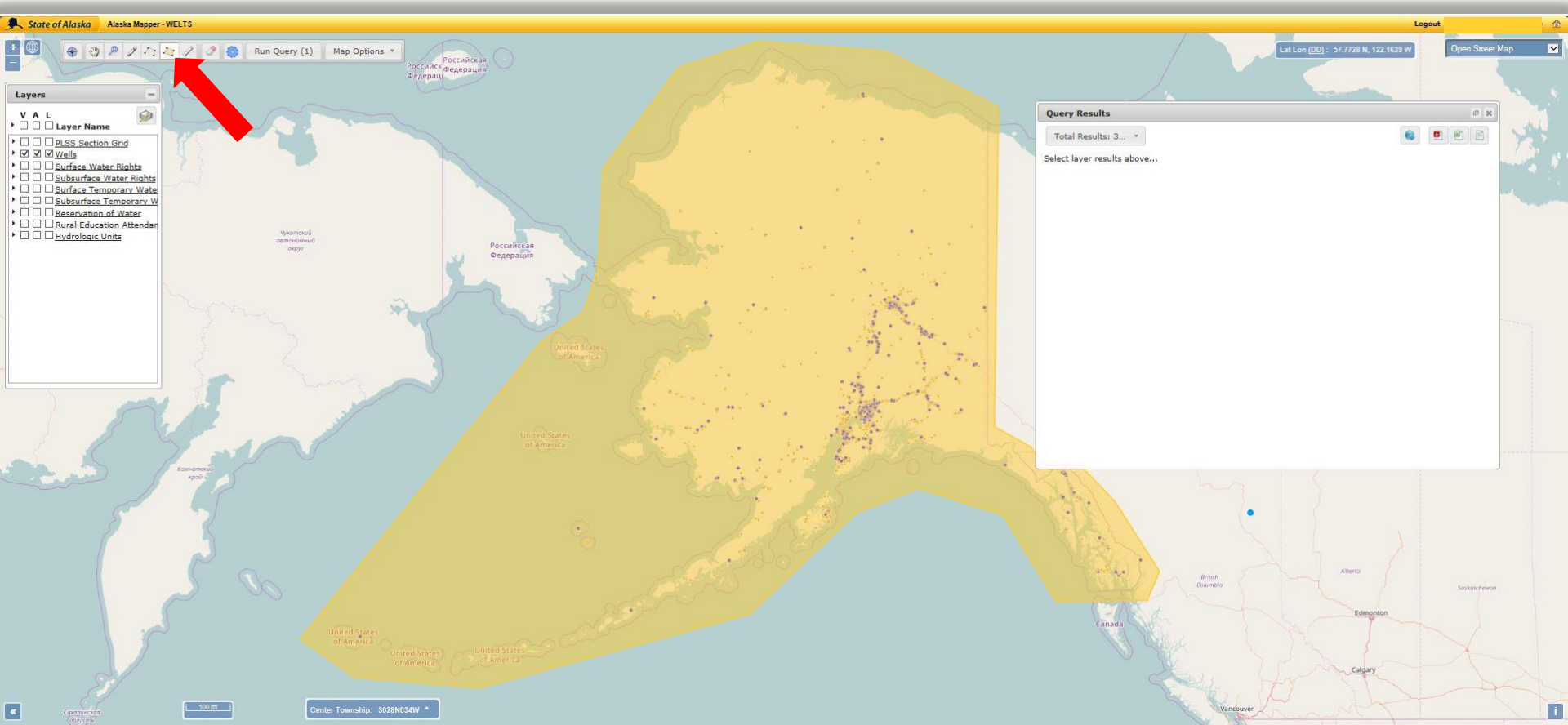
Then select the *Load Map* button as shown below:



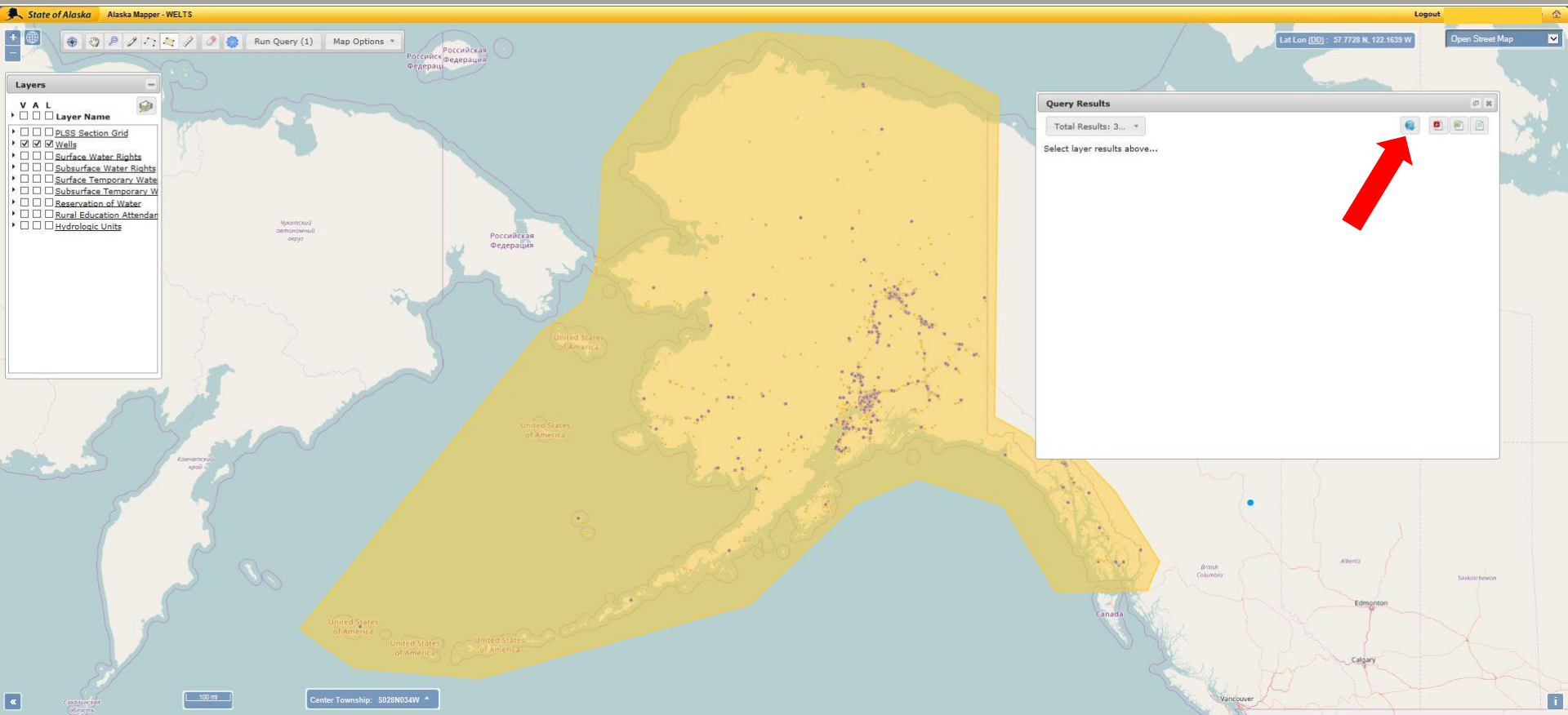
The well layer will become visible as shown below:



To download shapefiles, select the polygon icon and draw the polygon for the area of interest

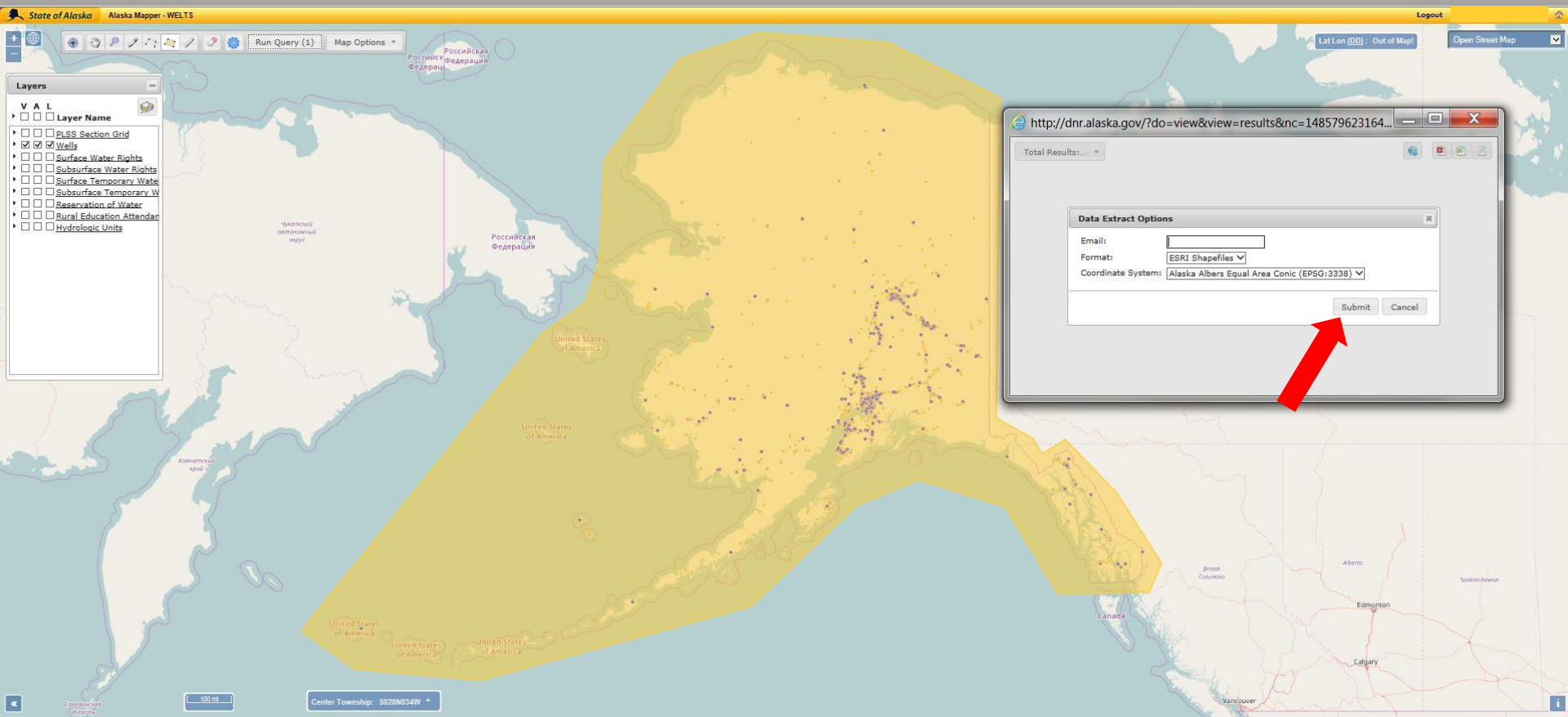


Then select the icon with the globe and arrow





The data extract options window will appear as shown below. Fill-in the requested information and click the *Submit* button





# Please be aware . . .

Additional queries and exports in spreadsheet, PDF, and HTML formats may be conducted in Alaska Mapper, however please be aware that the system will return an error message if the number of exported records in spreadsheet, PDF, and HTML formats exceeds 5,000

# **Component 4:**

**instructions for access to metadata**

WELTS metadata may be accessed by selecting *WELTS metadata* from the Additional Helpful Information drop-down menu on the WELTS homepage

The screenshot displays the WELTS homepage. At the top, there is a yellow navigation bar with links for 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. Below this is a blue header for the 'Alaska Department of Natural Resources Mining, Land & Water'. A search bar is located in the top right corner. The main content area is titled 'Well Log Tracking System (WELTS)' and includes a 'Search WELTS' section. This section contains a welcome message, a 'Forms' dropdown menu, and an 'Additional Helpful Information' dropdown menu. The 'Additional Helpful Information' menu is open, showing a list of options: 'Choose Information...', 'WELTS metadata' (highlighted with a red arrow), 'AK Mapper', 'DEC Well BMPs', 'Alaska Groundwater Database', 'Online Water Use Reporting (AKWUDS)', and 'Water Right Info'. Below the dropdown menu is a 'Search' section with a 'Search by key word and choose from suggestion dropdown' option. At the bottom of the page, there is a footer with links for 'Privacy', 'Copyright', 'System Status', and 'Webmaster', along with contact information for the Department of Natural Resources.

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Alaska Department of Natural Resources Mining, Land & Water

search

Natural Resources State of Alaska

Admin Login Drillers

Natural Resources > MLW > WELTS

## Well Log Tracking System (WELTS)

### Search WELTS

Welcome to the Alaska Well Log Tracking System (WELTS)! Alaska Statute 41.08.020(b)(4) and Alaska Administrative Code 11 AAC 93.140(a) requires water well contractors to file water and aquifer data obtained, including but not limited to, well location, well driller's logs, pumping tests and flow measurements, estimated elevation, and water quality determinations **within 45 days of well completion.**

Forms Select Form... Additional Helpful Information Choose Information...

WELTS metadata

AK Mapper

DEC Well BMPs

Alaska Groundwater Database

Online Water Use Reporting (AKWUDS)

Water Right Info

Search: Owner Name Last name, First name

Search by key word and choose from suggestion dropdown

Disclaimer: This page is provided as a public service by the Alaska Division of Mining, Land and Water. The Division makes NO representation regarding well location, completeness or accuracy of the data in the database or data extraction procedures provided. Data are provisional. The user assumes total responsibility for verification.

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Lastly, our beta testers tried their best to develop a bug-free product, however a few critters may have escaped us. Should you encounter any issues, please send an email with a screen capture of the error message to: [dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov) so that we may correct the problem.

# Thank you!

